

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A miniature motor structure, comprising:

a base with a sleeve;

a stator disposed around the sleeve and[[,]] further comprising:

a first coil seat, including a first bottom plate, a plurality of first outer teeth, a plurality of first inner teeth;

a coil, formed in the first coil seat;

a second coil seat, including a second bottom plate, a plurality of second outer teeth, a plurality of second inner teeth, said second coil seat disposed on the first coil seat, each of said second outer teeth interposed between said adjacent first outer teeth, each of said second inner teeth interposed between said adjacent first inner teeth with the tops of the second inner teeth extending to the same plane of the first bottom plate and the tops of the first inner teeth extending to the same plane of the second bottom plate; and

a circular magnet, surrounding said stator;~~and~~

~~a shaft, passing through said stator.~~

2. (Previously Presented) The miniature motor structure according to claim 1, wherein said first bottom plate further

includes a first central opening, said first outer teeth protruding from said first bottom plate and surrounding an outer periphery of said first bottom plate, said first inner teeth protruding from said first bottom plate and surrounding said first central opening.

3. (Previously Presented) The miniature motor structure according to claim 1, wherein said second bottom plate further includes a second central opening, said second outer teeth protruding from said second bottom plate and surrounding an outer periphery of said second bottom plate, said second inner teeth protruding from said second bottom plate and surrounding said second central opening.

4. (Original) The miniature motor structure according to claim 1, further comprises a metal housing surrounding said circular magnet and used to avoid magnetic leakage.

5. (Original) The miniature motor structure according to claim 1, wherein said first coil seat and said second coil seat are made of silicon steel.

6. (Original) The miniature motor structure according to claim 1, wherein said coil is positioned in a space defined by said first coil seat and said second coil seat.

7. (Original) The miniature motor structure according to claim 1, wherein said coil is preformed.

8. (Previously Presented) The miniature motor structure according to claim 1, wherein said first coil seat and said second coil seat are assembled with said coil wound around said first coil seat and said second coil seat.

9. (Previously Presented) The miniature motor structure according to claim 1, wherein said first outer teeth and said second outer teeth, or said first inner teeth and said second inner teeth further comprise a cut corner.

10. (Previously Presented) The miniature motor structure according to claim 1, wherein said first outer teeth and said second outer teeth, or said first inner teeth and said second inner teeth further comprise an arc.

11. (Previously Presented) The miniature motor structure according to claim 1, wherein said first outer teeth and said second outer teeth, or said first inner teeth and said second inner teeth further comprise a gap.

12. (Currently Amended) A miniature motor structure, comprising:

a base with a sleeve;

a stator disposed around the sleeve and[[,]] further comprising;

a first coil seat, including a first bottom plate, a plurality of first outer teeth, a plurality of first inner teeth, said first bottom plate further including a first central opening, said first outer teeth protruding from said first bottom plate and surrounding an outer periphery of said first bottom plate, said first inner teeth protruding from said first bottom plate and surrounding said first central opening;

a coil, formed in the first coil seat;

a second coil seat, including a second bottom plate, a plurality of second outer teeth, a plurality of second inner teeth, said second coil seat disposed on the first coil seat, said second bottom plate further including a second central opening, said second outer teeth protruding from said second bottom plate and

surrounding an outer periphery of said second bottom plate, said second inner teeth protruding from said second bottom plate and surrounding said second central opening, each of said second outer teeth interposed between said adjacent first outer teeth, each of said second inner teeth interposed between said adjacent first inner teeth with the tops of the second inner teeth extending to the same plane of the first bottom plate and the tops of the first inner teeth extending to the same plane of the second bottom plate;

a circular magnet, surrounding said stator; and

a metal housing, surrounding said circular magnet; ~~and~~

~~a shaft, passing through said stator.~~

13. (Original) The miniature motor structure according to claim 12, wherein said first coil seat is identical to said second coil seat.

14. (Original) The miniature motor structure according to claim 12, wherein said first coil seat and said second coil seat are made of silicon steel.

15. (Original) The miniature motor structure according to claim 12, wherein said coil is positioned in a space defined by said first coil seat and said second coil seat.

16. (Original) The miniature motor structure according to claim 12, wherein said coil is preformed.

17. (Previously Presented) The miniature motor structure according to claim 12, wherein said first coil seat and said second coil seat are assembled with said coil wound around said first coil seat and said second coil seat.

18. (Previously Presented) The miniature motor structure according to claim 12, wherein said first outer teeth and said second outer teeth, or said first inner teeth and said second inner teeth further comprise a cut corner.

19. (Previously Presented) The miniature motor structure according to claim 1, wherein said first outer teeth and said second outer teeth, or said first inner teeth and said second inner teeth further comprise an arc.

20. (Previously Presented) The miniature motor structure according to claim 1, wherein said first outer teeth and said second outer teeth, or said first inner teeth and said second inner teeth further comprise a gap.

21. (Previously Presented) A miniature motor structure, comprising:

a stator, further comprising:

a first coil seat, including a first bottom plate, a plurality of first outer teeth, a plurality of first inner teeth, wherein said first inner teeth and said first outer teeth are alternately arranged;

a coil, formed in the first coil seat;

a second coil seat, including a second bottom plate, a plurality of second outer teeth, a plurality of second inner teeth, wherein said second inner teeth and said second outer teeth are alternately arranged, said second coil seat disposed on the first coil seat, each of said second outer teeth interposed between said adjacent first outer teeth, each of said second inner teeth interposed between said adjacent first inner teeth;

a circular magnet, surrounding said stator; and

a shaft, passing through said stator.--

22. (Previously Presented) The miniature motor structure according to claim 21, wherein said first bottom plate further includes a first central opening, said first outer teeth protruding from said first bottom plate and surrounding an outer periphery of

said first bottom plate, said first inner teeth protruding from said first bottom plate and surrounding said first central opening, and said second bottom plate further includes a second central opening, said second outer teeth protruding from said second bottom plate and surrounding an outer periphery of said second bottom plate, said second inner teeth protruding from said second bottom plate and surrounding said second central opening.

23. (Previously Presented) The miniature motor structure according to claim 21, wherein said first outer teeth and said second outer teeth, or said first outer teeth and said second outer teeth further comprise a cut corner, an arc or a gap.

24. (Currently Amended) A miniature motor structure, comprising:

a stator, further comprising:

a first coil seat, including a first bottom plate, a plurality of first outer teeth, a plurality of first inner teeth, wherein each ~~[[of]]~~ first outer ~~[[inner]]~~ tooth is arranged to ~~partly trail behind/exceed~~ the partially exceed each corresponding first ~~[[outer]]~~ inner tooth in the circumferential direction;

a coil, formed in the first coil seat;

a second coil seat, including a second bottom plate, a plurality of second outer teeth, a plurality of second inner teeth, wherein each ~~[[of]]~~ second ~~[[inner]]~~ outer tooth is arranged to ~~partly trail behind/exceed the~~ partially exceed each corresponding second ~~[[outer]]~~ inner tooth in the circumferential direction, said second coil seat disposed on the first coil seat, each of said second outer teeth interposed between said adjacent first outer teeth, each of said second inner teeth interposed between said adjacent first inner teeth;

a circular magnet, surrounding said stator; and

a shaft, passing through said stator.--